

FIG.1

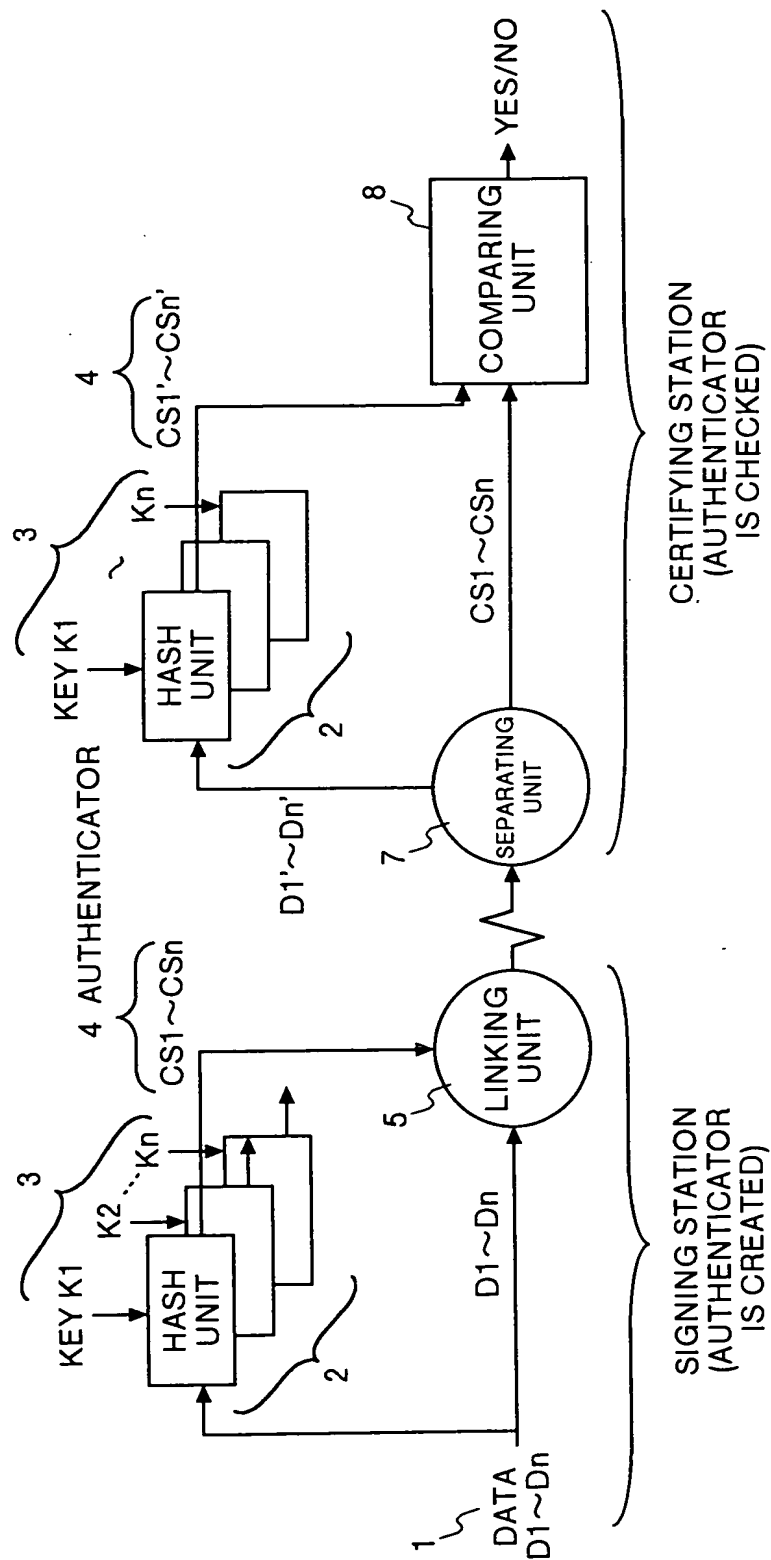


FIG.2A

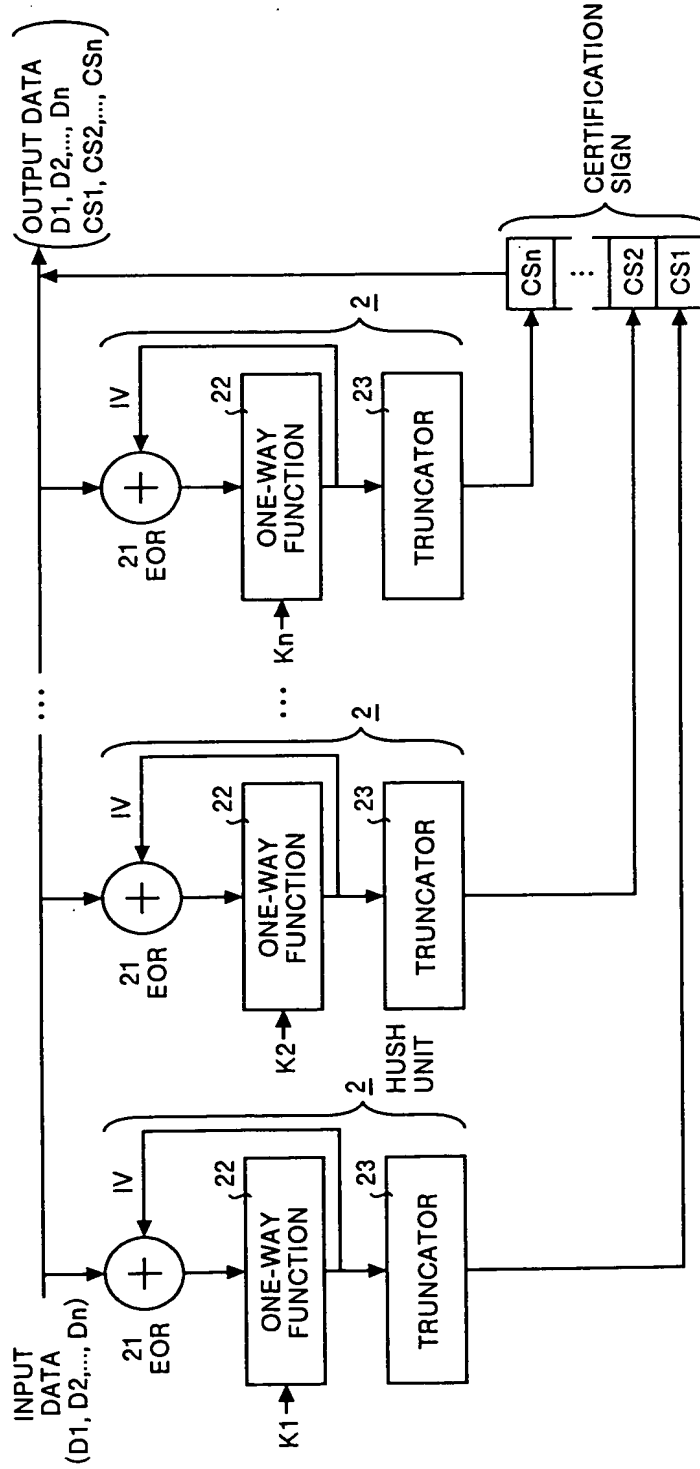


FIG.2B

- (b-1) CS1-GENERATING PROCESS
- ① → IV = PUBLIC CONSTANT
  - ② → EK1[IV(+)D1] = L11
  - ③ → EK1[L11(+)D2] = L12
  - ...
  - ④ → EK1[L1(n-1)(+)Dn] = L1n
  - ⑤ → Tr[L1n] = CS1
- (b-2) CS2-GENERATING PROCESS
- IV = PUBLIC CONSTANT
  - EK2[IV(+)D1] = L21
  - EK2[L21(+)D2] = L22
  - ...
  - EK2[L2(n-1)(+)Dn] = L2n
  - Tr[L2n] = CS2
- (b-3) CS3-GENERATING PROCESS
- IV = PUBLIC CONSTANT
  - EK3[IV(+)D1] = L31
  - EK3[L31(+)D2] = L32
  - ...
  - EK3[L3(n-1)(+)Dn] = L3n
  - Tr[L3n] = CS3

FIG. 3A

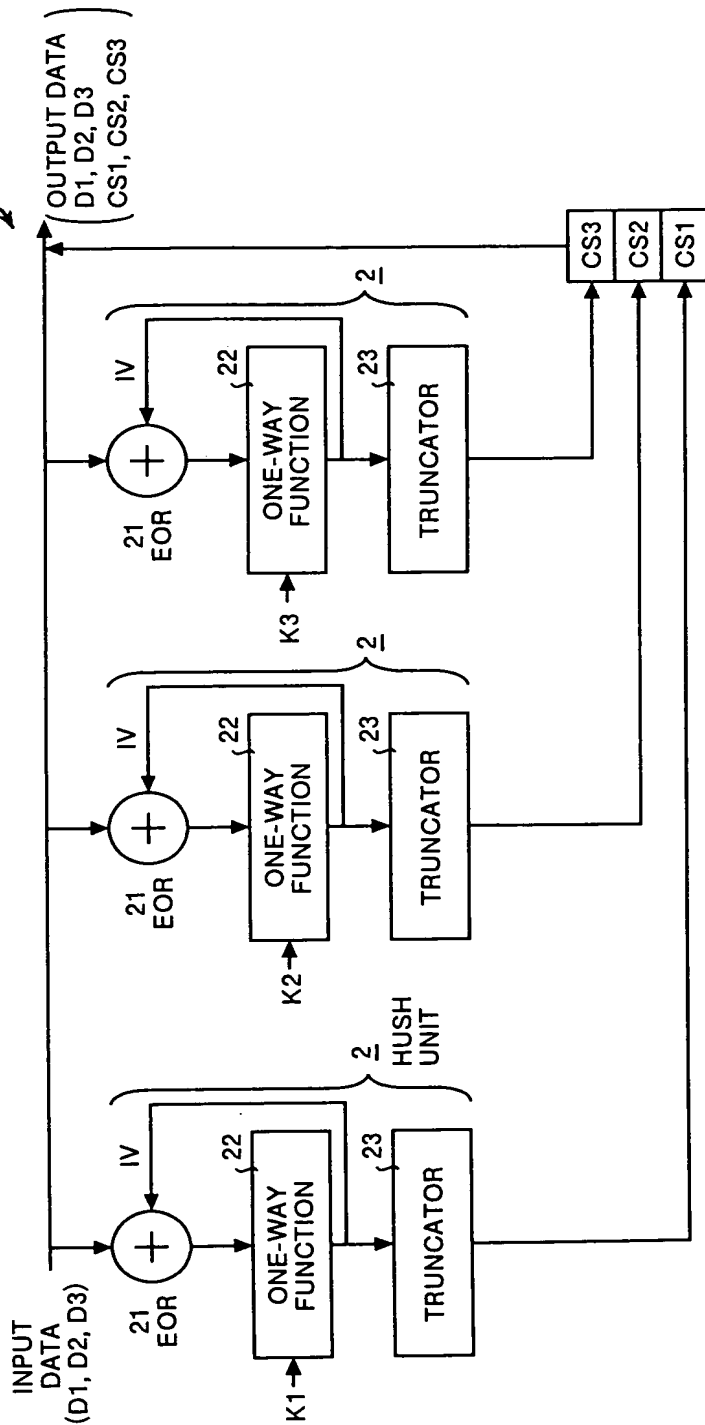


FIG. 3B

- (b-1) CS1-GENERATING PROCESS
- ① → IV = PUBLIC CONSTANT
  - ② → EK1[IV(+)D1] = L11
  - ③ → EK1[L11(+)D2] = L12
  - ④ → EK1[L12(+)D3] = L13
  - ⑤ → Tr[L13] = CS1
- (b-2) CS2-GENERATING PROCESS
- IV = PUBLIC CONSTANT
- EK2[IV(+)D1] = L21
- EK2[L21(+)D2] = L22
- EK2[L22(+)D3] = L23
- Tr[L23] = CS2
- (b-3) CS3-GENERATING PROCESS
- IV = PUBLIC CONSTANT
- EK3[IV(+)D1] = L31
- EK3[L31(+)D2] = L32
- EK3[L32(+)D3] = L33
- Tr[L33] = CS3

FIG.4A

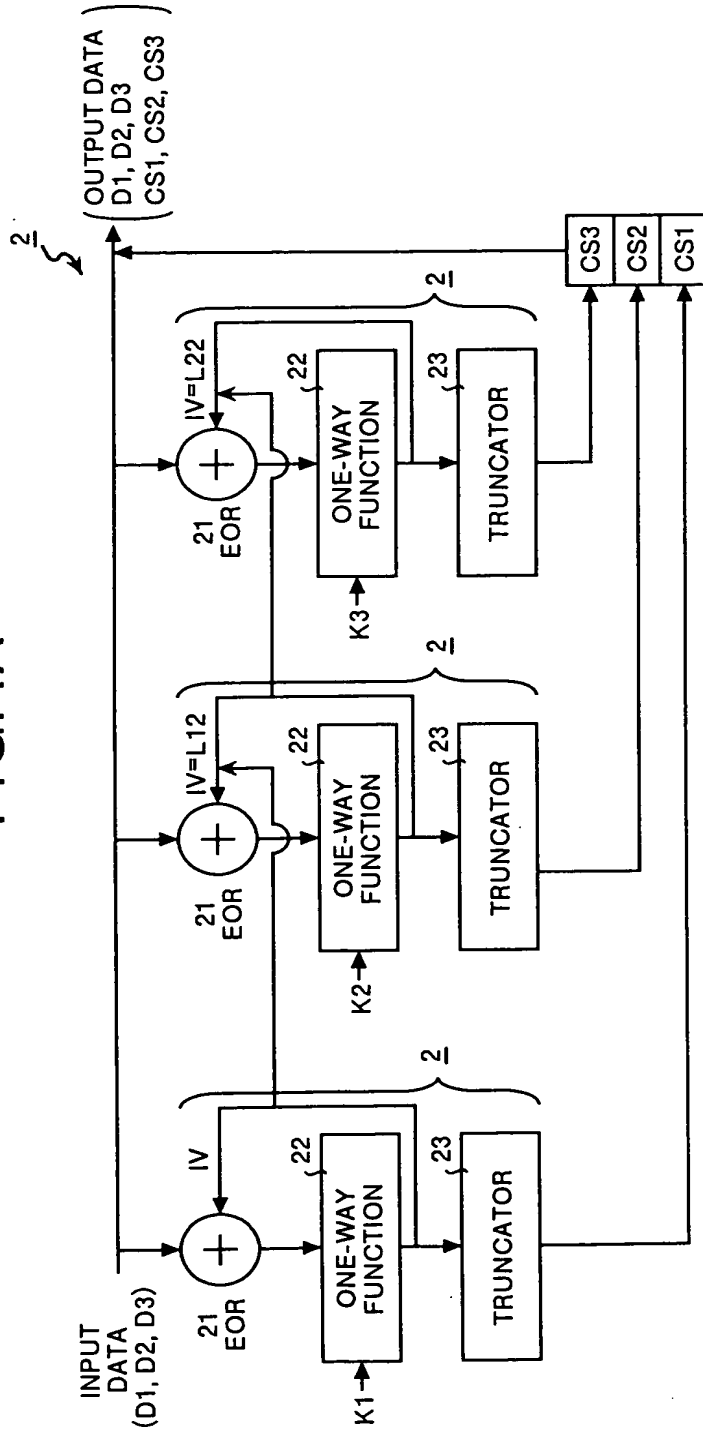
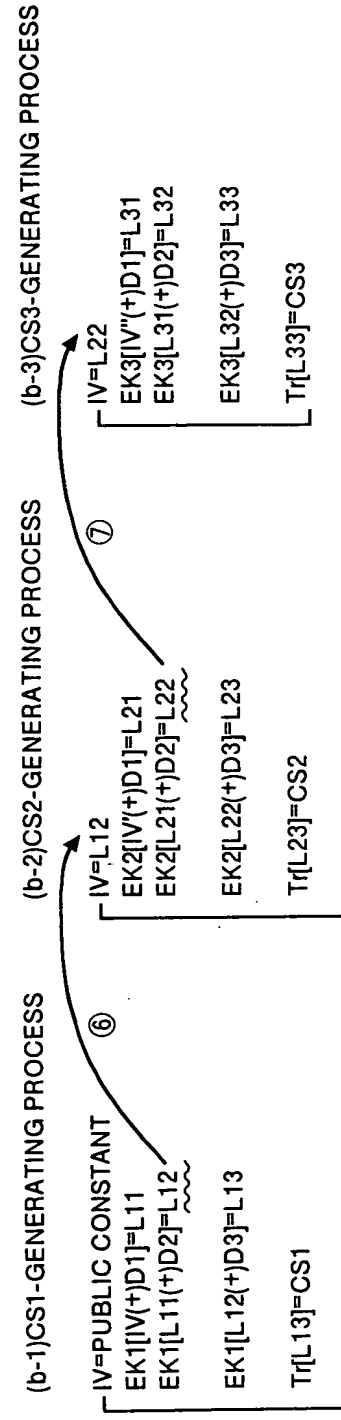


FIG.4B





[illegible]